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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-KRIDL-W.No.05-2016-17

Date: 26.10.2016

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Executive Engineer,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

AE-05 Ma

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

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Job No.: CECTC-KRIDL-W.No.05-2016-17

Date : 26.10.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : **Executive Engineer,** KRIDL, Bangalore.
Name of Work : Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.
Reference : BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
Date of Testing : 26.10.2016
Material : Sand

Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	75	5.00	5.00	95.0	90-100
2.36	265	17.67	22.67	77.3	75-100
1.18	285	19.00	41.67	58.3	55-90
600 Micron	295	19.67	61.33	38.7	35-59
300 Micron	321	21.40	82.73	17.3	8-30
150 Micron	165	11.00	93.73	6.3	0-10

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Job No.: CECTC-KRIDL-W.No.05-2016-17 Date : 26.10.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : **Executive Engineer,** KRIDL, Bangalore.
Name of Work : Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.
Reference : BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
Date of Testing : 26.10.2016
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	500	3.33	3.33	96.67	95-100
20	8312	55.41	58.75	41.25	30-70
10	3145	20.97	79.71	20.29	10-35
4.75	2415	16.10	95.81	4.19	0-5

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Job No.: CECTC-KRIDL-W.No.05-2016-17 Date : 26.10.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : **Executive Engineer,** KRIDL, Bangalore.
Name of Work : Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.
Reference : BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
Date of Testing : 26.10.2016
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	200	4.0	4.0	96.0	95-100
10	2345	46.9	50.9	49.1	25-55
4.75	2116	42.3	93.2	6.8	0-10

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Job No.: CECTC-KRIDL-W.No.05-2016-17

Date: 27.10.2016

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Contractor : **Executive Engineer,** KRIDL, Bangalore.

Name of Work : Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.

Reference : BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016

Sample Identification : 8mm, 10mm, 12mm TMT Fe 500 Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 27.10.2016

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.398	531	550	15
2	Fe 500	10	0.615	549	573	16
3	Fe 500	12	0.884	564	584	17

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Job No.: CECTC-KRIDL-W.No.05-2016-17 Date: 29.10.2016

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Contractor	: **Executive Engineer,** KRIDL, Bangalore.
Name of Work	: Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.
Reference	: BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
Size of Block	: 400mm x 200mm x 200 mm
Cross Sectional Area	: 80000 mm^2
Test Method & Specification	: IS 2185 (Part 1) - 2005
No. of Blocks Tested	: 03 No

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum required Compressive Strength of Individual Units
			kN	N/mm^2	N/mm^2
1	28.10.2016	29.10.2016	290.0	3.63	3.5
2	28.10.2016	29.10.2016	285.2	3.57	
3	28.10.2016	29.10.2016	300.2	3.75	

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Job No.: CECTC-KRIDL-W.No.05-2016-17

Date: 07.11.2016

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Executive Engineer,** KRIDL, Bangalore.
Name of the work	: Improvements to Road and drains at Bellahalli in Ward no -05, Byatarayanapura sub Division, BBMP ,Bangalore.
Reference	: BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.10.2016	07.11.2016	8.103	355.2	15.79
2	31.10.2016	07.11.2016	8.124	360.2	16.01
3	31.10.2016	07.11.2016	8.126	348.2	15.48

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Reference : BBMP/EE/BTP/WO/130/2016-17Dated:24.10.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7 day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.10.2016	07.11.2016	8.012	345.2	15.34
2	31.10.2016	07.11.2016	8.123	351.2	15.61
3	31.10.2016	07.11.2016	8.105	366.2	16.28

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Assistant Executive Engineer Byatarayanapura Sub Division BBMP Bangalore

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.10.2016	07.11.2016	7.999	354.2	15.74
2	31.10.2016	07.11.2016	8.000	367.2	16.32
3	31.10.2016	07.11.2016	8.120	370.2	16.45

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